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TRAFFIC SPEED REPORT No. 61

MAY, 1957
No. 12

Joint Highway Research Project

by

K. A.
MacNAUGHTON

PURDUE UNIVERSITY
LAFAYETTE INDIANA

TRAFFIC SPEED REPORT NO. 61

TO: K. B. Woods, Director
Joint Highway Research Project

May 9, 1957

FROM: H. L. Michael, Assistant Director

File: 8-3-3
Project C-36-10C

Attached is Traffic Speed Report No. 61. This report has been prepared by Mr. K. A. MacNaughton, research assistant on our staff. Traffic data collected at several locations near Lafayette, Indiana are reported.

An increase in the average speed of passenger cars was noted while the speed of trucks decreased slightly. Comparisons with speeds at the same locations in previous years are also included.

Respectfully submitted,

Harold L Michael

Harold L. Michael, Secretary

HLM:hgb

Attachment

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Progress Report

TRAFFIC SPEED REPORT NO. 61

by

Kevin A. MacNaughton
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Joint Highway Research Project
Project C-36-10C
File: 8-3-3

Purdue University
Lafayette, Indiana

May 9, 1957

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TRAFFIC SPEED REPORT NO. 61

This report covers spot speed observations since February 15, 1957. These data were collected by P. W. Stark, and the writer. All observations are for free-moving vehicles on level, tangent sections of rural highways. Locations observed were:

1. U. S. 52 - 1.0 mile South of Jct. of S. R. 28 (Dual lanes)
2. U. S. 52 - 1.0 mile West of Klondike (Dual lanes)
3. U. S. 52 - 2.2 miles Northwest of Templeton (2 lane)
4. U. S. 41 - 1.0 mile North of Baswell (2 lane)
5. U. S. 31 - 7.2 miles North of Perrysburg (2 lane)
6. S. R. 25 - 1.0 mile South of Americus (2 lane)

* The Joint Highway Research Project, in an effort to improve the accuracy and efficiency of the speed observations, purchased an Electro-Matic Radar Speed Meter. This machine indicates the doppler shift caused by the vehicle under study on a scale calibrate in miles per hour. The meter was first used in this study. The speed with which the machine can be set up, its ability to be concealed as part of a rural mailbox, the absence of road tubes, and the ease with which the observance conceal themselves, allows the observations to be taken without influencing the speeds of vehicles.

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Before using the meter, it was thoroughly checked for accuracy in the field, and calibrated until it was clearly indicated that correct speeds could be observed at least in the range of 20 to 80 miles per hour.

A summary of the results of this study, as well as the last seven studies, is given in Table I. Indiana State law limits the speed of passenger cars and trucks weighing less than 5,000 pounds to 65 miles per hour, while trucks weighing more than 5,000 pounds are limited to 45 miles per hour. For this reason the truck speeds are divided into three groups, light trucks, heavy trucks, and all trucks. Because it is impractical to accurately ascertain the exact weight of each truck, panel and pick up types are classed as less than 5,000 pounds, while dual tired and semi-trailer types are classed as weighing over 5,000 pounds.

In order to facilitate comparison between the present and the last previous observation of a given location, the results are presented in tabular form in Tables II through VII. All speed observations were taken at the same locations for this study as for the last.

Passenger cars increased in average speed by 1.9 miles per hour since the last study while trucks decreased by 0.3 miles per hour. Indiana passenger cars increased their average speed by 0.6 miles per hour on two-lane highways while on four-lane highways it increased from 57.4 mph to 59.9 mph. Out-of-state passenger cars increased their average speeds on both types of highways by rising from 56.3 mph to 59.8 mph and from 58.8 mph to 63.6 mph on two-lane

and four-lane highways respectively.

Light trucks showed an over all increase of 0.7 mph in average speeds since August 1956, from 50.2 mph to 50.9 mph. They showed a decrease of 0.4 mph on two-lane highways, while increasing from 49.6 mph to 52.2 mph on four lane highways. A decrease was noted for heavy trucks. On two-lane highways a decrease from 46.6 mph to 46.1 mph is shown while on four-lane highways an increase from 47.4 mph to 47.9 mph was observed. The overall average for heavy trucks decreased by 0.4 mph.

The change in speed of all passenger cars on all highways amounted to an increase of 1.9 mph from 56.4 mph to 58.3 mph. A decrease of 0.3 mph was recorded for all trucks on all highways. The average speed of all trucks was found to be 46.6 mph during this study.

Table I

SUMMARY OF SPOT SPEED OBSERVATIONS ON INDIANA HIGHWAYS

(Free-Moving Vehicles on Level, Tangent Sections)

		Passenger Cars				Trucks		
		Ind. Mean	Non-Ind. Mean	All Mean	All 85 Per	Light Mean	Heavy Mean	All Mean
Two-Lane Highways	Dec.'53	51.5	55.9	53.2	61.6	44.0	42.2	43.0
	Apr.'54	53.6	56.5	54.8	62.6	44.8	42.9	43.7
	Aug.'54	55.0	56.8	55.7	63.8	49.9	46.0	47.1
	Dec.'54	52.0	54.1	52.8	58.8	48.2	44.4	45.2
	July'55	53.8	55.7	54.5	61.8	46.2	45.5	45.6
	Feb.'56	54.9	58.0	55.9	63.2	47.1	43.2	44.4
	Aug.'56	55.0	56.3	55.5	63.1	50.6	45.5	46.6
	May '57	55.6	59.1	56.9	61.0	50.2	44.8	46.1
Four-Lane Highways	Dec.'53	52.1	55.8	53.4	61.5	44.7	40.1	41.6
	Apr.'54	56.4	58.8	57.3	66.0	43.7	41.7	42.2
	Aug.'54	55.5	58.2	56.6	65.0	50.1	45.6	47.1
	Dec.'54	54.2	55.7	54.7	60.1	47.2	43.6	44.3
	July'55	54.5	56.6	55.2	63.7	47.5	43.9	44.8
	Feb.'56	58.1	60.1	58.7	65.7	47.8	45.2	45.8
	Aug.'56	57.4	58.8	58.2	66.8	48.6	46.0	47.1
	May '57	59.9	63.6	61.0	69.0	52.3	46.0	47.9
All Highways	Dec.'53	51.7	55.9	53.3	61.6	44.2	41.4	42.6
	Apr.'54	54.6	57.3	55.6	64.4	44.5	42.5	43.3
	Aug.'54	55.1	57.3	56.0	64.2	50.5	45.9	47.1
	Dec.'54	52.7	54.5	53.4	59.3	47.8	44.0	44.8
	July'55	54.1	56.6	55.2	64.3	46.9	44.7	45.2
	Feb.'56	56.0	58.6	56.8	63.8	47.3	44.0	44.9
	Aug.'56	55.7	57.3	56.4	64.5	50.2	45.6	46.9
	May '57	57.2	60.3	58.3	66.0	50.9	45.2	46.6

APPENDIX

Truck types are classified as follows:

2P	2 Axle panel or pickup
2S	2 Axle, 4 tired other than 2P
2D	2 Axle, 6 tired
3	3 Axle Single Unit
2S1	2 Axle tractor-truck with 1 axle semi-trailer
2S2	2 Axle tractor-truck with 2 axle semi-trailer
2-2	2 Axle tractor-truck pulling 2 axle full trailer
2S1-2	2 Axle tractor-truck with 1 axle semi-trailer and a 2 axle full trailer
3-3	3 Axle truck pulling 3 axle full trailer
3S2-2	3 Axle tractor-truck with a 2 axle semi-trailer and a 2 axle full trailer

Body type codes:

CO	Covered, box, closed, delivery, panel, screen, top, van.
PL	Platform, flat bed.
ST	Stake, crate, rack
TA	Tank
OP	Open, pickup
REF	Refrigerator
AC	Autocarrier
DP	Dump
LI	Lime spreader
BL	Not reportable in any of the above classifications.

TABLE II SPEED DATA

Station U. S. 52 1.0 Miles South of South Jct. SR 28

Surface 24' N. B. P. C. C. S. B. Bit. Conc (Divided Lanes) Weather Ptly-Cloudy-Cold

This Observation
Date Feb. 19, 1957
Time 2:00 - 5:00

Last Previous Observation (Speed Report No. 60)
Date August 24, 1956
Time 12:10 P.M. - 2:25 P.M.

		PASSENGER CARS						TRUCKS						BUSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles obs.	425	382	211	311	214	71	72	115	13	37	59	78	4	4
	Ave. Speed (m.p.h.)	59.3	61.1	58.3	60.7	59.8	63.3	47.2	48.7	53.5	53.8	45.8	46.3	51.2	56
	85 m.p.h.	—	—	—	—	—	—	41.7	68.7	69.2	83.8	35.6	61.5	75.0	100
	80 m.p.h.	82.8	94.0	78.7	93.6	86.9	95.8	13.9	40.0	69.2	70.3	1.7	25.6	75.0	100
	70 m.p.h.	65.4	84.3	60.2	83.0	70.6	90.1	6.9	20.9	38.5	48.6	0	7.7	75.0	75.0
	60 m.p.h.	52.9	65.4	25.6	62.4	33.2	78.9	1.4	7.8	7.7	24.3	0	0	25.0	25.0
	50 m.p.h.	9.4	32.7	8.5	29.6	10.3	46.5	0	5.2	0	16.2	0	0	0	0
	40 m.p.h.	3.6	10.5	4.3	9.7	1.9	14.1	0	3.5	0	10.8	0	0	0	0
	25 m.p.h.	0.9	2.6	1.4	2.6	0.5	2.8	0	0	0	0	0	0	0	0
NORTHBOUND	No. of Vehicles obs.	226	191	111	158	115	33	21	57	4	15	17	42	4	4
	Ave. Speed (m.p.h.)	59.4	60.8	58.4	60.3	59.8	63.2	46.5	46.8	50.8	48.9	45.5	46.1	51.2	56
	Max. Speed (m.p.h.)	—	—	84	75	89	77	—	—	68	61	52	59	60	60
	State or Type	—	—	—	—	Ohio	Ill.	—	—	2 POP	2 PCO	2 DSt	2S2P1	—	—
	Min. Speed (m.p.h.)	—	—	41	40	40	43	—	—	40	26	44	36	42	50
	State or Type	—	—	—	—	Ga	U.S.Govt.	—	—	2PCO	2 P St	2S2&	2D St.	—	—
SOUTHBOUND	No. of Vehicles obs.	199	191	100	153	99	38	51	58	9	22	42	36	0	0
	Ave. Speed (m.p.h.)	59.0	61.5	58.3	61.0	59.8	63.3	47.5	50.5	54.7	57.1	46.0	46.5	-	-
	Max. Speed (m.p.h.)	—	—	93	78	75	85	—	—	63	72	55	57	-	-
	State or Type	—	—	—	—	111.	Ohio	—	—	2POP	2 SOP	2S2TA	2S2 St	—	—
	Min. Speed (m.p.h.)	—	—	45	30	46	46	—	—	46	40	38	30		
	State or Type	—	—	—	—	111	Ohio	—	—	2PCO	2P St	2S2	2SOP	—	—

TABLE III SPEED DATA

Station U.S. 52 1.0 Miles West of Klondike

Surface 24' Portland Cement Concrete (Divided Lanes) Weather Cloudy-Cold

This Observation
Date February 15 & 20, 1957
Time 2:30 to 4:30 P.M.

Last Previous Observation (Speed Report No. 60)
Date August 20, 1956
Time 1:45 P.M. - 4:15 P.M.

		PASSENGER CARS						TRUCKS						BUSSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles Obs.	394	405	190	303	204	102	108	95	33	26	75	69	0	6
	Ave. Speed (m.p.h.)	57.1	60.8	56.4	59.7	57.8	63.9	47.5	46.9	41.1	49.9	46.1	45.8	-	38.5
Equaling or exceeding	45 m.p.h.	—	—	—	—	—	—	61.1	68.4	60.6	76.9	61.3	65.2	-	16.7
	50 m.p.h.	81.0	91.1	76.8	89.1	84.8	97.1	25.9	32.6	33.3	50.0	22.7	26.1	-	16.7
	55 m.p.h.	68.8	79.5	65.8	76.6	71.6	88.2	6.5	9.5	21.2	26.9	0	2.9	-	0
	60 m.p.h.	45.2	62.5	43.2	56.8	47.1	79.4	2.8	7.4	9.1	26.9	0	0	-	0
	65 m.p.h.	18.3	30.4	12.6	27.1	23.5	40.2	1.8	2.1	6.1	7.7	0	0	-	0
	70 m.p.h.	3.8	14.3	1.6	11.6	5.9	22.5	0.9	1.1	3.0	3.8	0	0	-	0
	75 m.p.h.	0.5	3.2	0	1.0	1.0	9.8	0	0	0	0	0	0	-	0
North BOUND	No. of Vehicles Obs.	201	230	83	173	118	57	51	23	11	4	40	19	-	3
	Ave. Speed (m.p.h.)	55.9	61.5	54.6	60.7	56.8	63.8	44.5	44.0	45.4	50.75	44.2	42.6	-	35.7
	Max. Speed (m.p.h.)	—	—	67	86	78	88	—	—	54	60	52	50	-	43
	State or Type	—	—	—	—	Ill. N.Y.	Ohio	—	—	2P CO	2S	2D ST	2S1CO	—	—
	Min. Speed (m.p.h.)	—	—	35	30	37	47	—	—	33	45	35	26	-	27
	State or Type	—	—	—	—	Wisc.	Ill.	—	—	2P CO	2S	3 BL	2S2CO	—	—
South BOUND	No. of Vehicles Obs.	193	175	107	130	86	45	57	72	22	22	35	50	-	3
	Ave. Speed (m.p.h.)	58.5	59.8	57.8	58.4	59.3	63.9	48.8	47.8	49.5	49.7	48.3	47.0	-	41.3
	Max. Speed (m.p.h.)	—	—	72	74	76	79	—	—	74	70	53	56	-	50
	State or Type	—	—	—	—	Ohio	Ohio	—	—	2P OP	2POP	2D&2S2	2S1AC	—	—
	Min. Speed (m.p.h.)	—	—	35	23	36	46	—	—	39	25	40	29	-	31
	State or Type	—	—	—	—	Ohio	Ohio	—	—	2P OP	2POP	2DCO	2DST	—	—

TABLE IV SPEED DATA

Station U. S. 52 2.0 Miles North of Templeton

Surface 22' Rock Asphalt Weather Cloudy-Windy

This Observation: Date March 1 & 26, 1957; Time 2:30 - 4:30 P.M.

Last Previous Observation (Speed Report No. 60): Date August 21, 1956; Time 9:30 A.M. - 11:45 A.M.

		PASSENGER CARS						TRUCKS						BUSSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles Obs.	424	385	177	218	247	167	75	115	11	10	64	105	0	0
	Ave. Speed (m.p.h.)	57.7	60.5	56.7	59.7	57.6	61.6	47.0	46.5	56.0	55.9	45.4	45.6	-	-
% equaling or exceeding	45 m.p.h.	—	—	—	—	—	—	42.7	65.2	-	-	37.8	61.9	-	-
	50 m.p.h.	82.1	94.3	78.5	92.2	84.6	97.0	18.7	30.4	72.7	100.0	9.4	23.8	-	-
	55 m.p.h.	50.9	84.2	52.5	80.7	49.8	88.6	10.7	7.0	36.4	60.0	6.2	1.9	-	-
	60 m.p.h.	22.4	62.9	19.8	54.6	24.3	73.6	1.3	4.4	9.1	40.0	0	1.0	-	-
	65 m.p.h.	5.9	23.4	5.1	20.2	6.5	27.5	1.3	0	9.1	0	0	0	-	-
	70 m.p.h.	0.5	7.5	0.6	6.9	0.4	8.4	0	0	0	0	0	0	-	-
	75 m.p.h.	0.2	1.8	0	.9	0.4	3.0	0	0	0	0	0	0	-	-
NORTH BOUND	No. of Vehicles Obs.	184	212	97	124	87	88	42	48	7	5	35	43	-	-
	Ave. Speed (m.p.h.)	56.6	60.3	56.5	59.7	56.6	61.1	45.6	45.7	55.6	57.4	43.6	44.3	-	-
	Max. Speed (m.p.h.)	—	—	78	77	72	78	—	—	70	60	53	53	-	-
	State or Type	—	—	—	—	Ill.	Ill.	—	—	2PCO	2POP	2DBL	2S2TA 2S1CO	—	—
	Min. Speed (m.p.h.)	—	—	40	40	38.	40	—	—	52	54	38	32	-	-
	State or Type	—	—	—	—	Ill.	Ill.	—	—	2POP	2POP	2D&2S2	2DDP	—	—
SOUTH BOUND	No. of Vehicles Obs.	240	173	80	94	160	79	33	67	4	5	29	62	-	-
	Ave. Speed (m.p.h.)	57.3	60.7	56.8	59.6	58.1	62.1	48.8	47.1	56.8	54.4	47.7	46.5	-	-
	Max. Speed (m.p.h.)	—	—	73	80	80	82	—	—	63	61	64	60	-	-
	State or Type	—	—	—	—	Ill.	Ill.	—	—	2PCO	2PCO	2DBL	2DCO	—	—
	Min. Speed (m.p.h.)	—	—	38	44	40	41	—	—	53	50	40	30	-	-
	State or Type	—	—	—	—	Ohio	Ill.	—	—	2POP	2POP	2S2	2S2CO	—	—

TABLE V SPEED DATA

Station U. S. 41, 1.0 Miles North of Boswell

Surface 22.5' Portland Cement Concrete Weather

This Observation — Date April 16, 1957 — Time 1:00 - 4:30 P.M.

Last Previous Observation (Speed Report No. 60) — Date August 23, 1956 — Time 2:00 0 4:30 P.M.

		PASSENGER CARS						TRUCKS						BUSSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles Obs.	395	375	193	184	202	191	105	124	20	27	85	97	1	1
	Ave. Speed (m.p.h.)	54.4	56.9	53.8	55.4	54.9	58.5	45.6	45.9	48.2	50.9	44.9	44.6	42.0	25.0
	45 m.p.h. & exceeding	—	—	—	—	—	—	76.2	57.3	80.0	74.1	75.3	52.6	0	0
	50 m.p.h. & exceeding	75.2	84.3	72.5	77.7	77.7	90.6	39.0	21.8	60.0	48.2	34.1	14.4	0	0
	55 m.p.h. & exceeding	46.8	63.7	43.0	52.2	50.5	74.9	14.3	10.5	25.0	29.6	11.8	5.2	0	0
	60 m.p.h. & exceeding	23.8	40.0	22.8	32.1	24.8	47.6	1.9	5.6	5.0	22.2	1.2	1.0	0	0
	65 m.p.h. & exceeding	6.8	13.9	6.2	13.6	7.4	14.1	1.0	2.4	0	11.1	1.2	0	0	0
	70 m.p.h. & exceeding	3.0	5.3	4.1	4.4	2.0	6.3	0	1.6	0	7.4	0	0	0	0
	75 m.p.h. & exceeding	1.0	1.6	1.6	1.6	0.5	1.6	0	0.8	0	3.7	0	0	0	0
North BOUND	No. of Vehicles Obs.	213	192	97	97	116	95	45	56	9	13	36	43	1	—
	Ave. Speed (m.p.h.)	52.9	56.8	52.2	55.3	53.6	58.3	43.6	46.4	47.9	52.1	42.5	44.7	42.0	—
	Max. Speed (m.p.h.)	—	—	75	100	71	85	—	—	62	69	58	60	42	—
	State or Type	—	—	—	—	Ill.	Ill.	—	—	2POP	2POP	2DS/	2DST	—	—
	Min. Speed (m.p.h.)	—	—	38	24	40	36	—	—	40	39	29	32	42	—
	State or Type	—	—	—	—	Ill.	Mich.	—	—	2POP	2POP	2DDP	2S2PL	—	—
South BOUND	No. of Vehicles Obs.	182	183	96	87	86	96	60	68	11	14	49	54	0	1
	Ave. Speed (m.p.h.)	56.0	57.1	55.4	55.5	56.7	58.6	47.0	45.5	48.5	49.8	46.7	44.4	—	25.0
	Max. Speed (m.p.h.)	—	—	89	87	85	76	—	—	58	77	65	56	—	25.0
	State or Type	—	—	—	—	Tenn.	Ill.	—	—	2POP	2POP	2S2CO	2S1PL	—	—
	Min. Speed (m.p.h.)	—	—	34	30	40	37	—	—	39	33	36	27	—	25.0
	State or Type	—	—	—	—	Ill.	Ill.	—	—	2PCO	2POP	2DST	2DST	—	—

TABLE VI SPEED DATA

Station U. S. 31 7.2 Miles north of Perrysburg

Surface 22.5' Portland Cement Concrete, Resurfaced with Bituminous Material Weather Partly - Cloudy, Windy

This Observation — Date March 5 and 12, 1957 — Time

Last Previous Observation (Speed Report No. 60) — Date September 4, 1956 — Time 10:30 a.m. - 1:45 p.m.

		PASSENGER CARS						TRUCKS						BUSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles Obs.	413	383	323	309	90	74	86	110	19	37	67	73	2	6
	Ave. Speed (m.p.h.)	54.3	53.0	53.7	52.6	56.3	54.8	45.9	43.9	48.5	47.7	45.1	42.0	55.5	33.2
	% Exceeding 45 m.p.h.	—	86.7	—	84.5	—	96	58.1	39.1	68.4	62.2	55.2	27.4	100	16.7
	% Exceeding 50 m.p.h.	75.1	70.8	73.1	68.9	82.2	78.4	29.1	23.6	52.6	48.6	22.4	11.0	100	16.7
	% Exceeding 55 m.p.h.	54.2	41.5	51.1	40.1	65.6	47.3	7.0	11.8	16.8	27.0	4.5	4.1	100	16.7
	% Exceeding 60 m.p.h.	28.8	19.8	26.9	18.5	35.6	25.7	1.2	6.4	0	18.9	1.5	0	0	0
	% Exceeding 65 m.p.h.	6.5	7.6	5.9	7.1	8.9	9.5	0	1.8	0	5.4	0	0	0	0
	% Exceeding 70 m.p.h.	1.4	2.6	0.9	2.6	3.3	2.7	0	0	0	0	0	0	0	0
	% Exceeding 75 m.p.h.	0	1.0	0	0.6	0	2.7	0	0	0	0	0	0	0	0
SOUND	No. of Vehicles Obs.	190	200	149	160	41	40	41	60	9	21	32	39	1	
	Ave. Speed (m.p.h.)	54.6	53.7	54.4	53.7	55.7	53.8	45.1	43.9	47.4	48.1	44.5	41.6	56.0	
	Max. Speed (m.p.h.)	—	—	72	75	69	67	—	—	58	68	54	56	56	
	State or Type	—	—	—	—	Mich.	Mich.	—	—	2PCo	2 POP	2S2CO	2DDP	—	—
	Min. Speed (m.p.h.)	—	—	32	31	37	40	—	—	41	24	20	28	56	
	State or Type	—	—	—	—	Mich.	N. Y.	—	—	2POP	2 POP	2DST	2DST	—	—
BOUND	No. of Vehicles Obs.	223	183	174	149	49	34	45	50	10	16	35	34	1	
	Ave. Speed (m.p.h.)	54.0	52.3	53.2	51.4	56.9	56.0	46.6	44.0	49.5	47.2	45.7	42.4	55	
	Max. Speed (m.p.h.)	—	—	70	74	74	78	—	—	58	69	64	56	55	
	State or Type	—	—	—	—	Mich.	Mi.&Oh.	—	—	2 POP	2PCO	2S2PL	2DDP	—	—
	Min. Speed (m.p.h.)	—	—	30	31	38	43	—	—	40	21	30	34	55	
	State or Type	—	—	—	—	Mich.	OHIO	—	—	2 POP	2PSt	2S2St	2S2CO	—	—

TABLE VII SPEED DATA

Station S. R. 25 1.0 Mile South of Americus

Surface 22' Bituminous Resurfaced Concrete Weather Partly Cloudy - Clear

This Observation
Date Feb. 21 and 28, 1957
Time

Last Previous Observation (Speed Report No. 60)
Date August 23, 1956
Time 9:00 a.m. - 11:30 a.m.

		PASSENGER CARS						TRUCKS						BUSSES	
		All		Indiana		Non-Indiana		All		Less than 5000 pounds		5000 pounds or more		All	
OBSERVATION		Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present	Last	Present
All Vehicles	No. of Vehicles Obs.	406	400	332	363	74	37	95	99	28	31	67	68	1	1
	Ave. Speed (m.p.h.)	56.0	56.3	56.1	56.0	55.7	59.5	48.1	48.1	51.6	50.8	46.6	46.9	54.0	47.0
	% Equaling or exceeding 45 m.p.h.	—	92.8	—	92.0	—	—	66.3	69.7	78.6	77.4	61.2	66.2	100.0	100.0
	50 m.p.h.	83.5	80.5	84.6	78.8	78.4	97.3	36.8	38.4	60.7	58.8	26.9	30.9	100.0	0
	55 m.p.h.	59.8	57.0	60.2	54.3	58.1	83.8	16.8	14.1	39.3	29.0	7.5	7.4	0	0
	60 m.p.h.	34.0	36.3	34.0	34.2	33.8	56.8	8.4	8.1	21.4	16.1	3.0	4.4	0	0
	65 m.p.h.	12.1	14.3	12.0	14.1	12.2	16.2	3.2	1.0	10.7	3.2	0	0	0	0
	70 m.p.h.	4.7	5.3	4.8	5.8	4.1	0	0	1.0	0	3.2	0	0	0	0
	75 m.p.h.	1.0	2.0	0.9	2.2	1.4	0	0	1.0	0	0	0	0	0	0
BOUND	No. of Vehicles Obs.	213	261	173	242	40	19	50	57	14	16	36	41	0	0
	Ave. Speed (m.p.h.)	57.2	56.8	57.4	56.5	56.4	59.9	48.4	49.8	51.3	53.2	47.2	48.4	—	—
	Max. Speed (m.p.h.)	—	—	77	80	74	69	—	—	66	79	64	63	—	—
	State or Type	—	—	—	—	Mich	Ill.	—	—	2POP	2PCO	2DCO	2SCO	—	—
	Min. Speed (m.p.h.)	—	—	40	41	39	49	—	—	30	39	38	36	—	—
	State or Type	—	—	—	—	Mich	Mich.	—	—	2POP	2POP	2DST	2DP1	—	—
BOUND	No. of Vehicles Obs.	193	139	159	121	34	18	45	42	14	15	31	27	1	1
	Ave. Speed (m.p.h.)	54.8	55.4	54.8	54.9	54.9	59.1	47.8	45.8	51.9	48.2	45.9	44.5	54.0	47.0
	Max. Speed (m.p.h.)	—	—	78	79	78	65	—	—	68	58	58	58	54.0	47.0
	State or Type	—	—	—	—	Mich.	Ill.	—	—	2POP	2PCO	2SCO	2DCO	—	—
	Min. Speed (m.p.h.)	—	—	27	40	41	53	—	—	41	28	31	30	54.0	47.0
	State or Type	—	—	—	—	Ill.	Mich.	—	—	2SST	2POP	2S1CO	2DDP	—	—

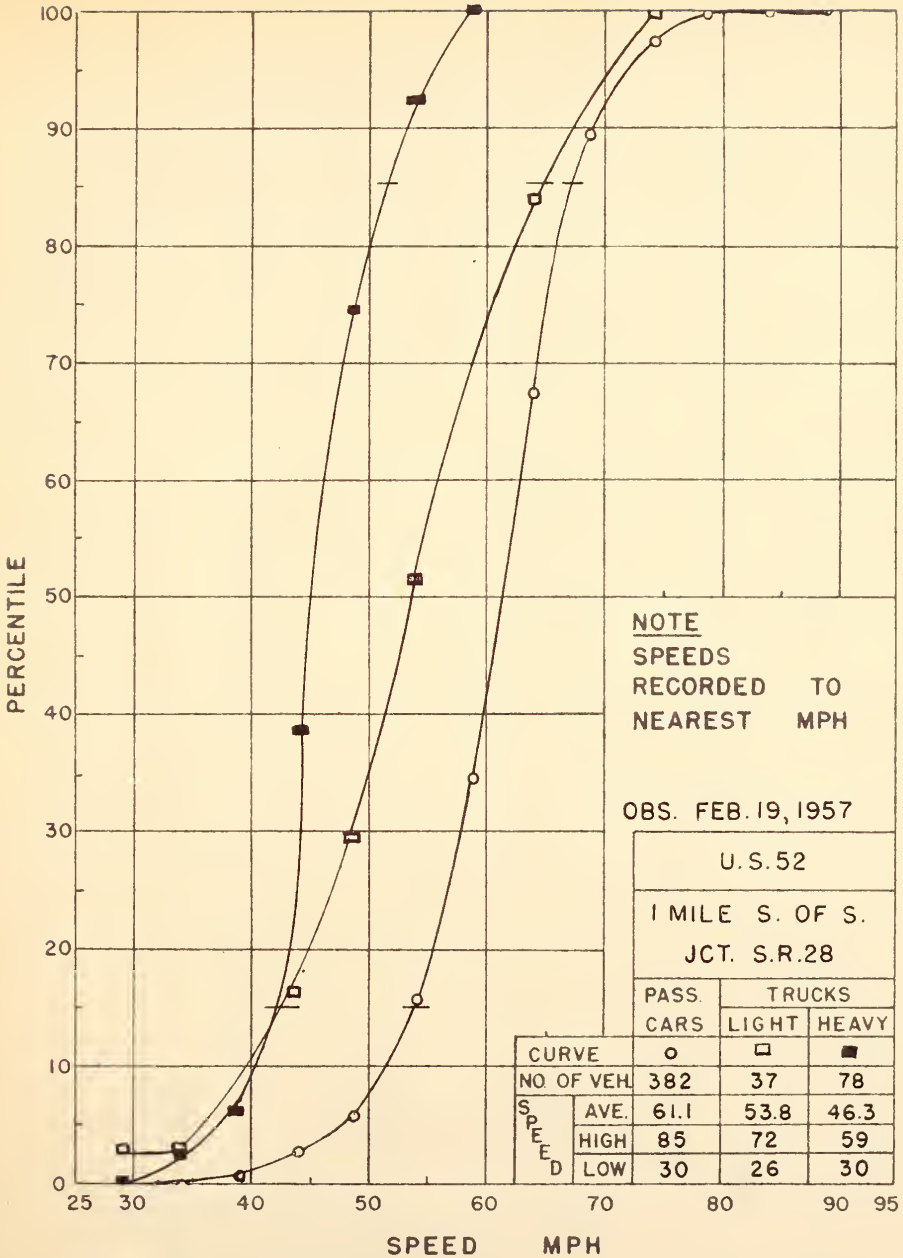
PERCENTILE
100
90
80
70
60
50
40
30
20
10
0
25 30 40 50 60 70 80 90 95
SPEED MPH
NOTE
SPEEDS
RECORDED TO
NEAREST MPH
OBS. FEB. 19, 1957
U.S. 52
1 MILE S. OF S.
JCT. S.R. 28
PASS. CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH. 382 37 78
SPEED AVE. 61.1 53.8 46.3
HIGH 85 72 59
LOW 30 26 30

FIGURE 1

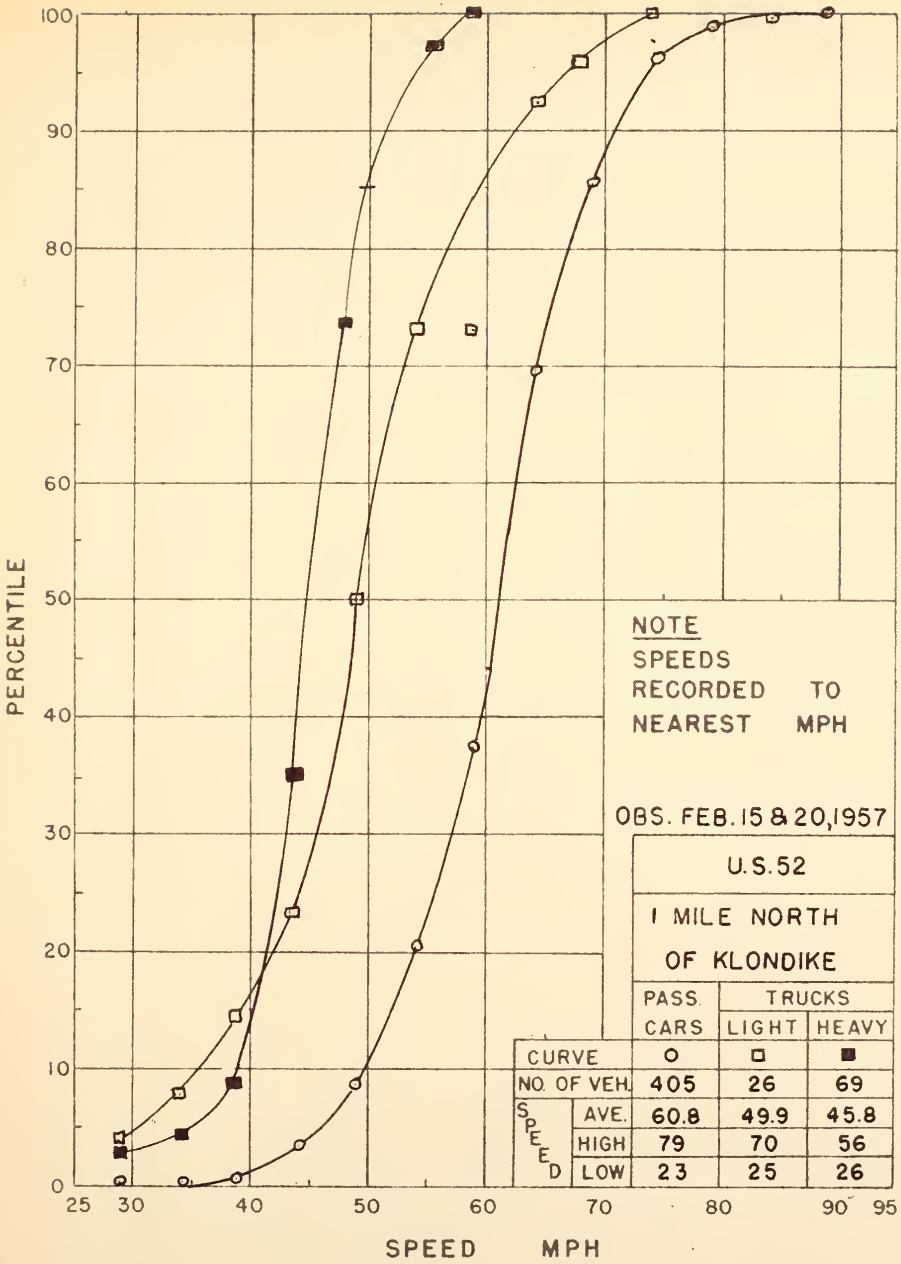
PERCENTILE
100
90
80
70
60
50
40
30
20
10
0
25
30
40
50
60
70
80
90
95
SPEED MPH
NOTE
SPEEDS
RECORDED TO
NEAREST MPH
OBS. FEB. 15 & 20, 1957
U.S. 52
1 MILE NORTH
OF KLONDIKE
PASS. CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH.
405
26
69
SPEED
AVE.
60.8
49.9
45.8
HIGH
79
70
56
LOW
23
25
26

FIGURE 2

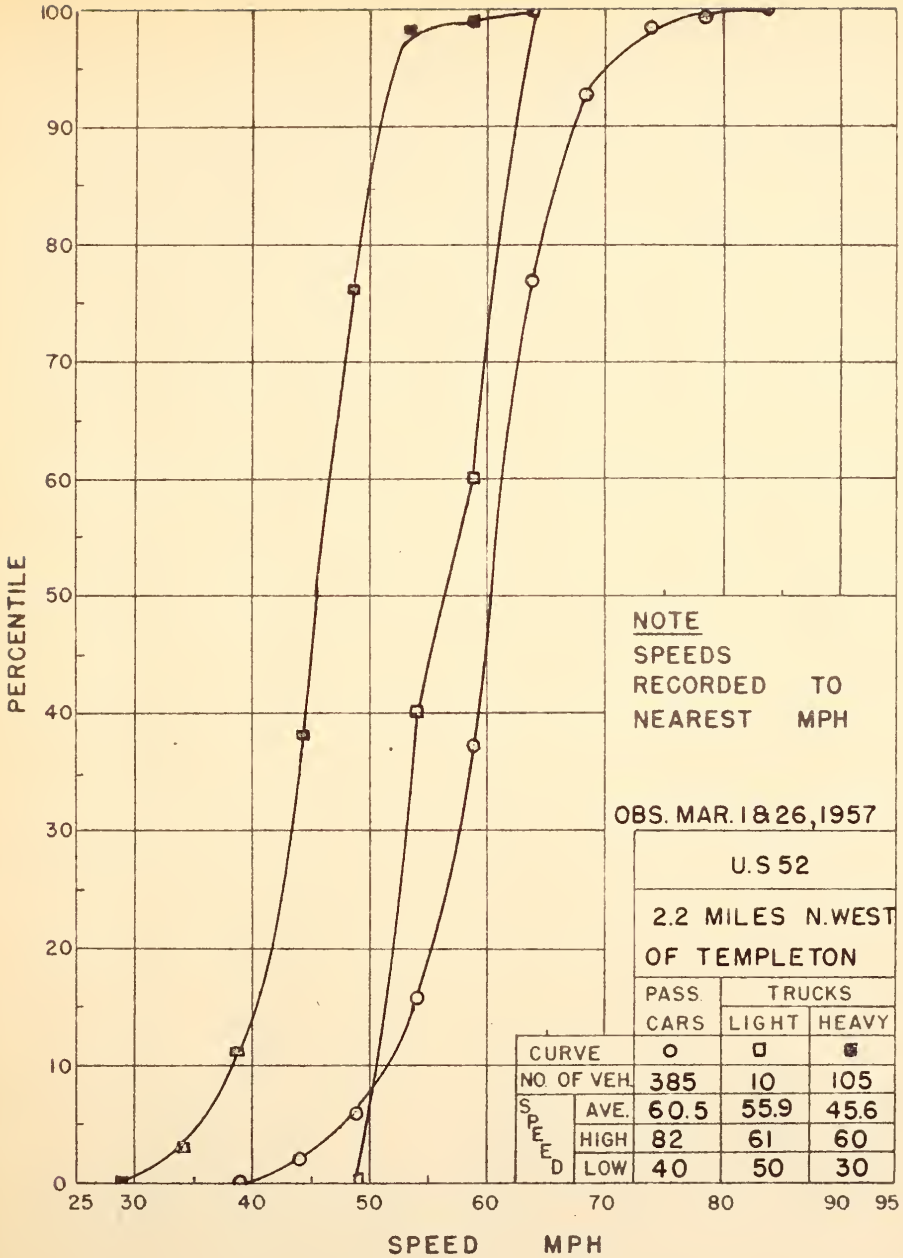
PERCENTILE
100
90
80
70
60
50
40
30
20
10
0
25 30 40 50 60 70 80 90 95
SPEED MPH
NOTE
SPEEDS
RECORDED TO
NEAREST MPH
OBS. MAR. 1 & 26, 1957
U.S 52
2.2 MILES N.WEST
OF TEMPLETON
PASS. CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH.
385
10
105
SPEED
AVE.
60.5
55.9
45.6
HIGH
82
61
60
LOW
40
50
30

FIGURE 3

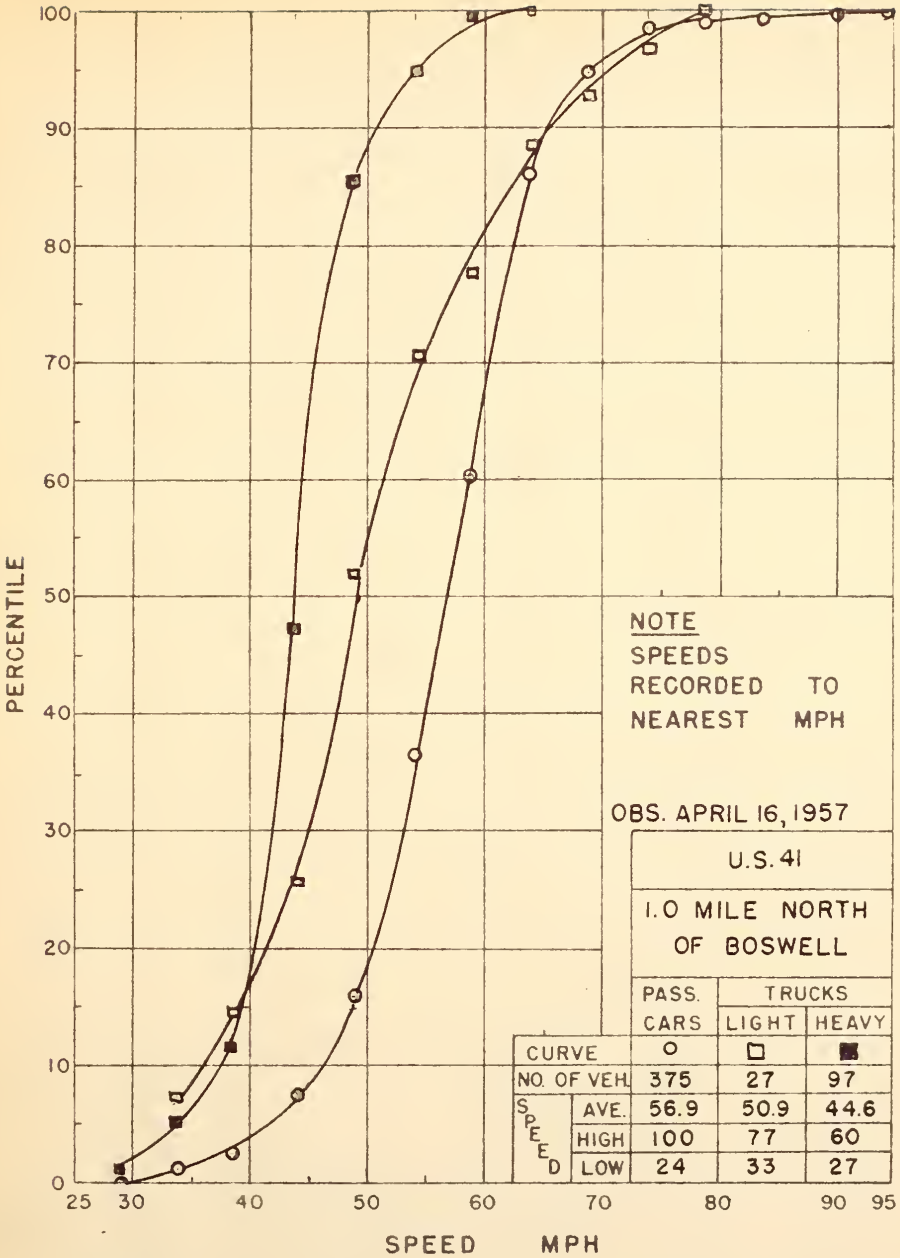
PERCENTILE
100
90
80
70
60
50
40
30
20
10
0
25
30
40
50
60
70
80
90
95
SPEED MPH
NOTE
SPEEDS RECORDED TO NEAREST MPH
OBS. APRIL 16, 1957
U.S. 41
1.0 MILE NORTH OF BOSWELL
PASS. CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH.
SPEED
AVE.
HIGH
LOW
375
27
97
56.9
50.9
44.6
100
77
60
24
33
27

FIGURE 4

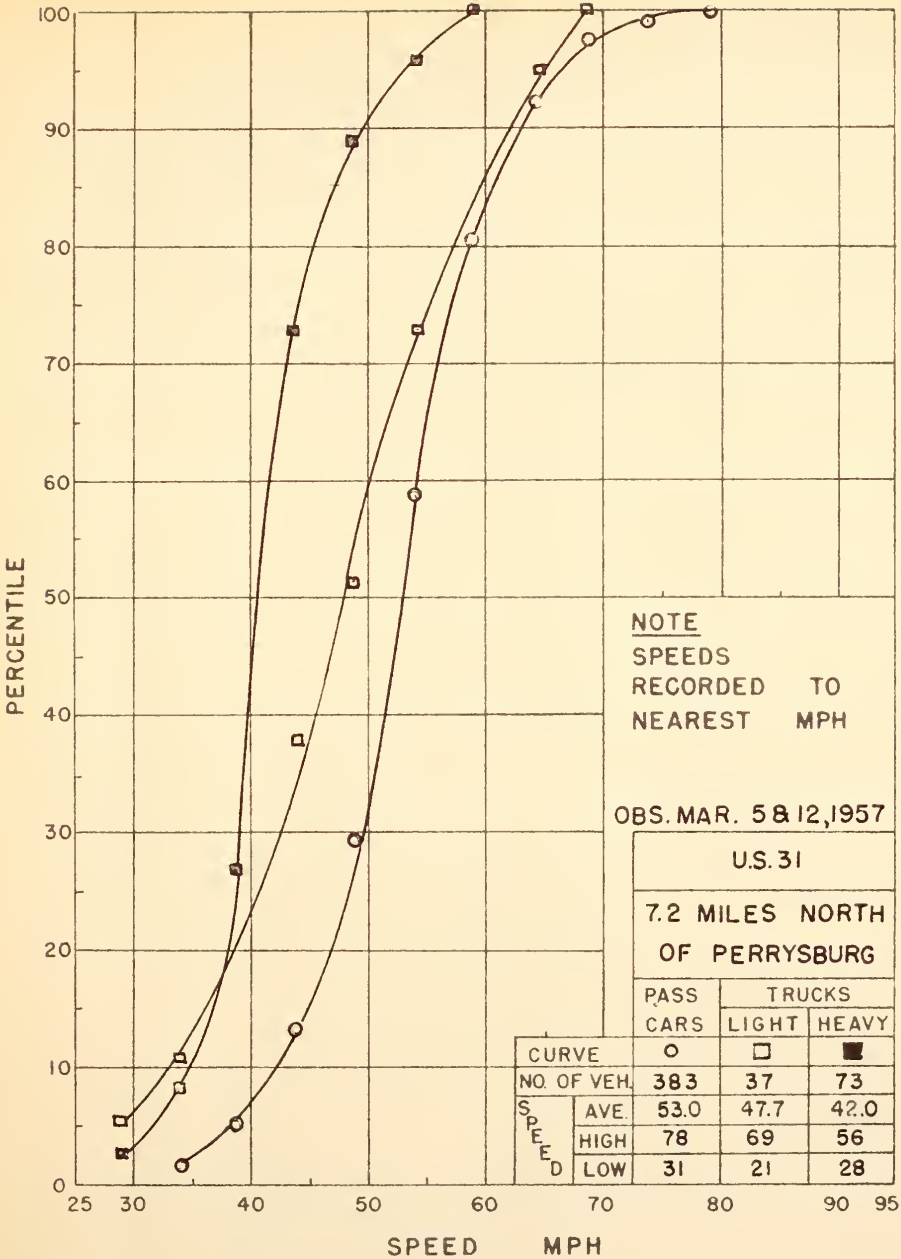
PERCENTILE
100
90
80
70
60
50
40
30
20
10
0
25
30
40
50
60
70
80
90
95
SPEED MPH
NOTE
SPEEDS RECORDED TO NEAREST MPH
OBS. MAR. 5 & 12, 1957
U.S. 31
7.2 MILES NORTH OF PERRYSBURG
PASS CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH.
383
37
73
SPEED
AVE.
53.0
47.7
42.0
HIGH
78
69
56
LOW
31
21
28

FIGURE 5

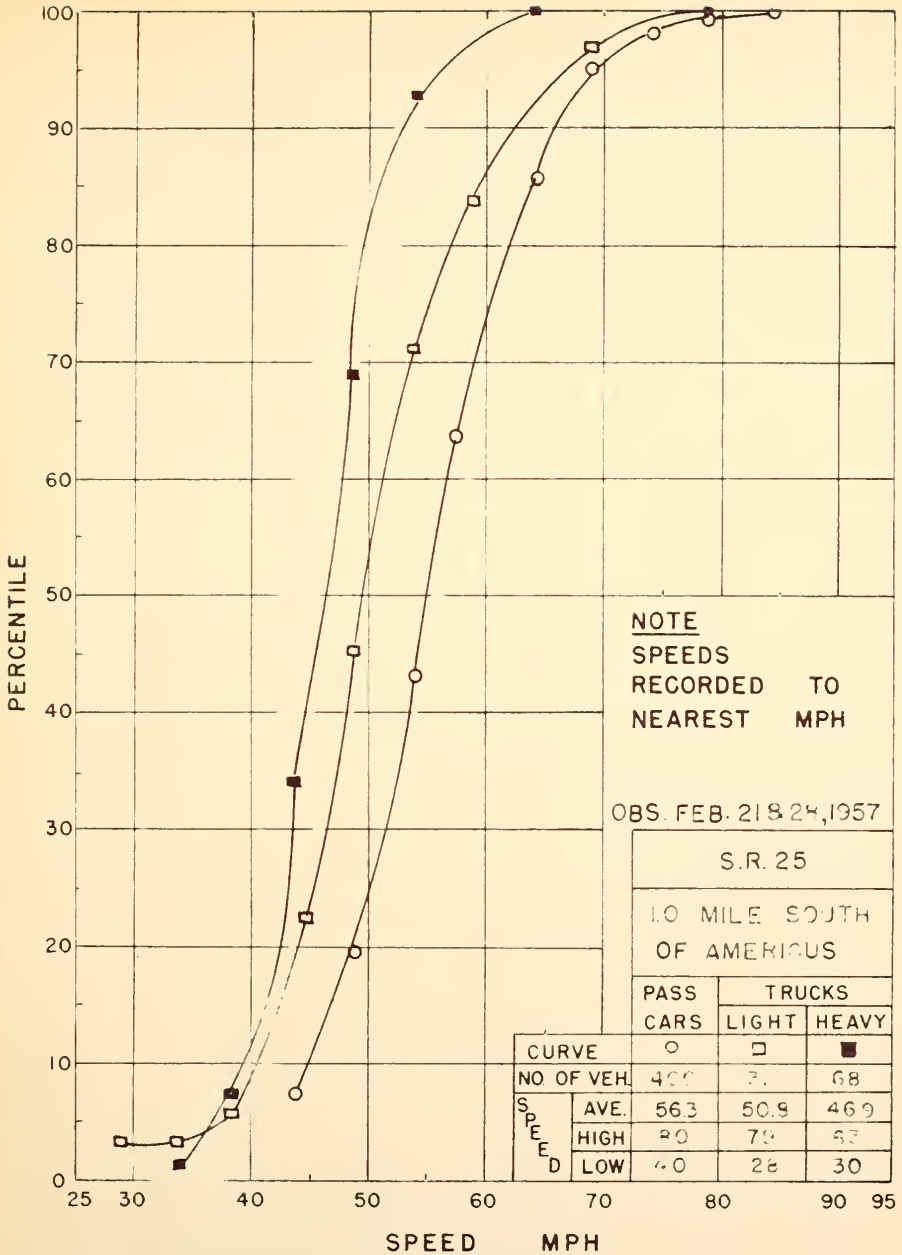
PERCENTILE
SPEED MPH
NOTE
SPEEDS RECORDED TO NEAREST MPH
OBS. FEB. 21 & 24, 1957
S.R. 25
1.0 MILE SOUTH OF AMERICUS
PASS CARS
TRUCKS
LIGHT
HEAVY
CURVE
NO. OF VEH.
SPEED
AVE.
HIGH
LOW
56.3
50.9
46.9
80
79
63
40
28
30

FIGURE 6

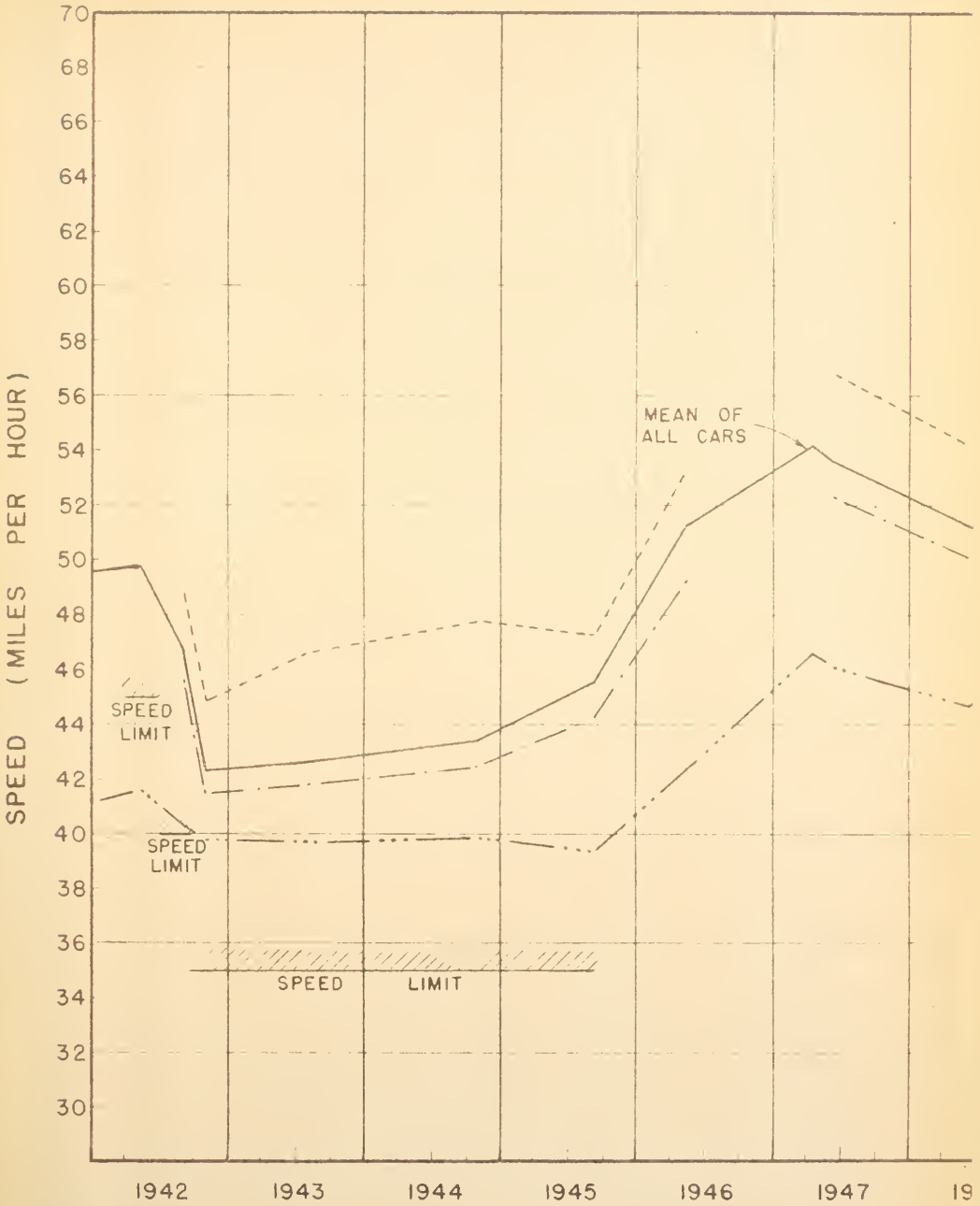

FIG. 7 INDIANA RURAL SPI

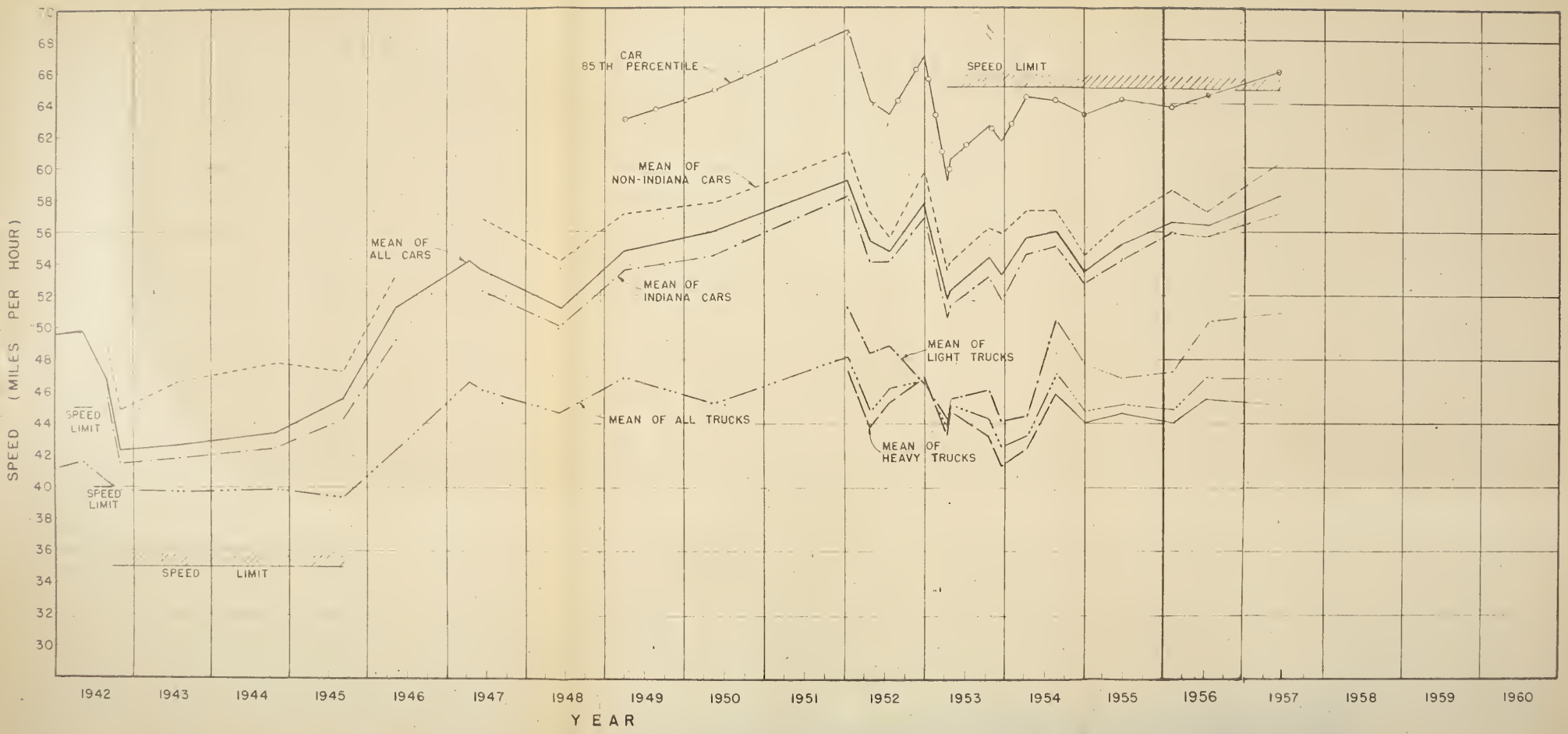

FIG. 7 INDIANA RURAL SPEED TRENDS 1942 – 1960

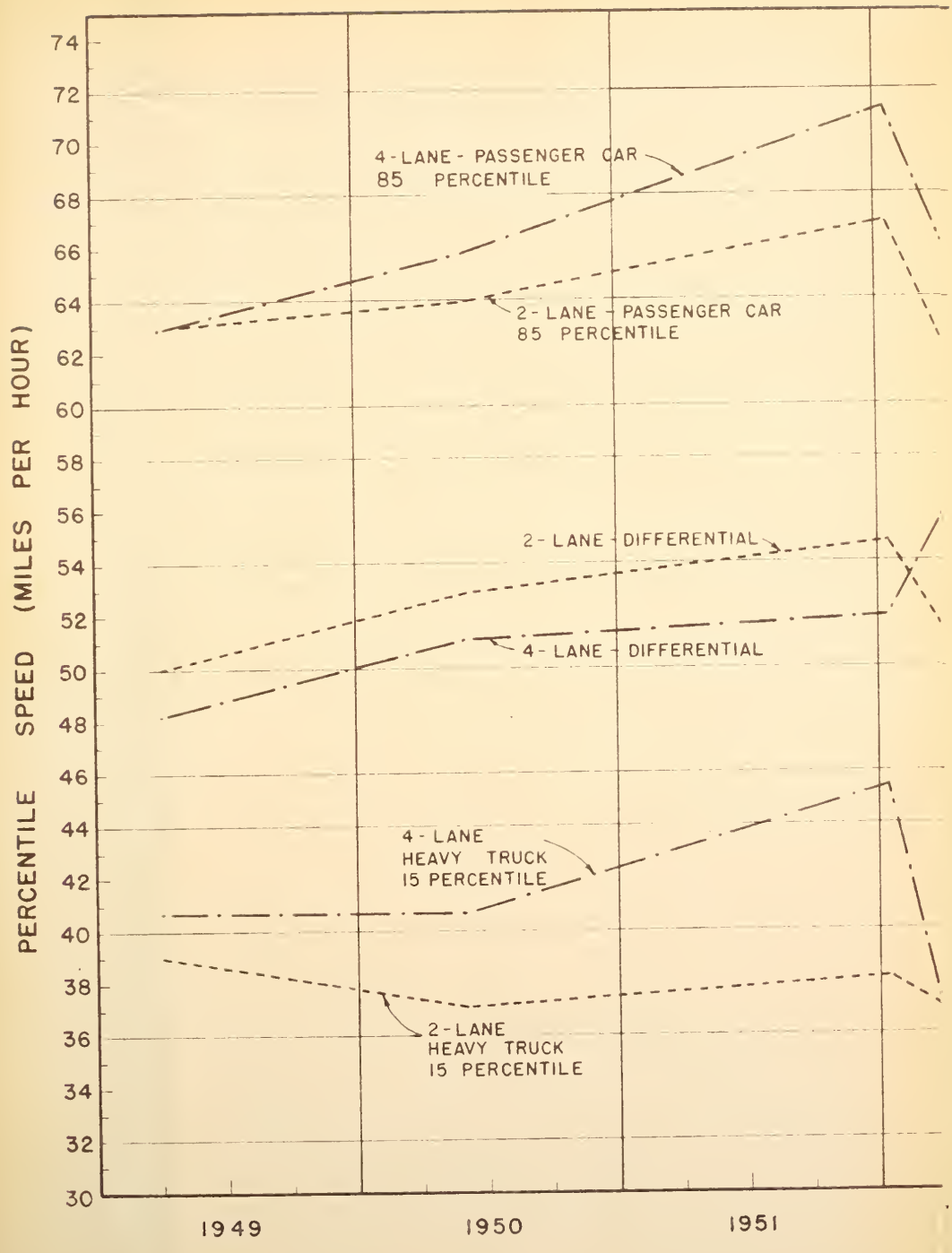

FIG. 8 TRENDS IN PERCENTILE SPEEDS

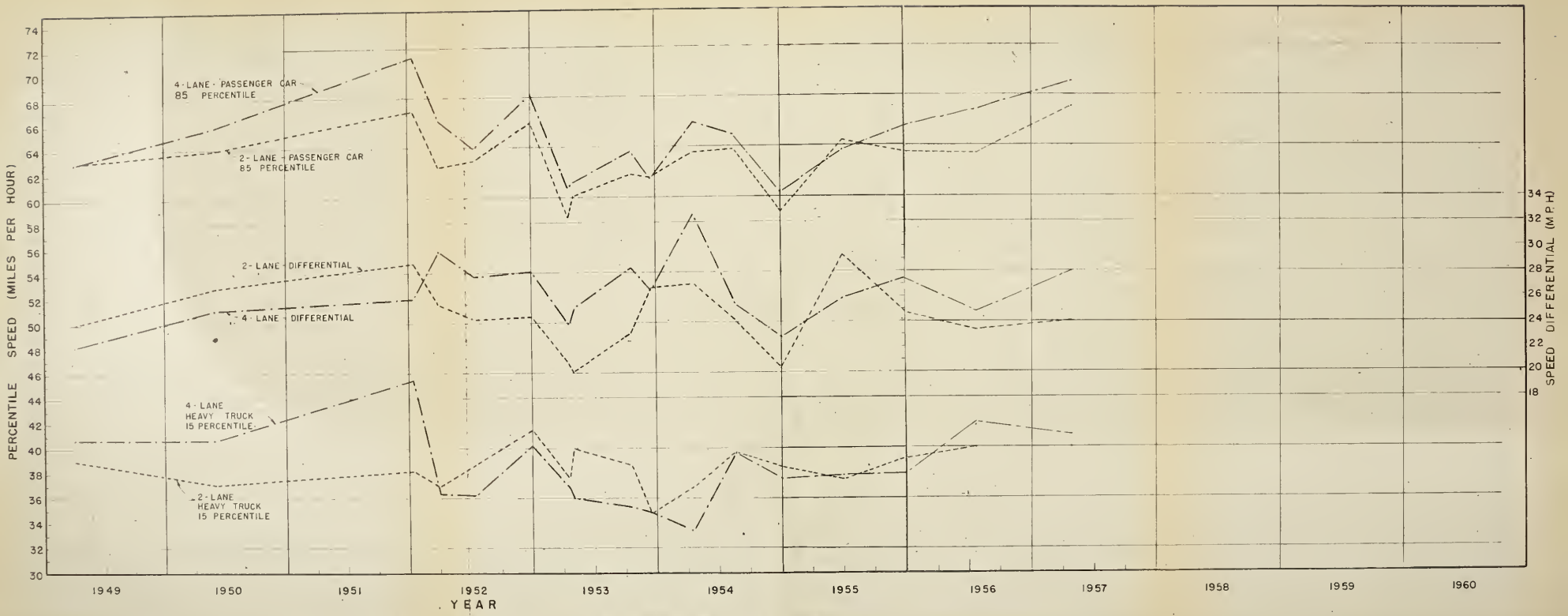

FIG. 8 TRENDS IN PERCENTILE SPEEDS AND SPEED DIFFERENTIAL 1949-1960